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In re Patent Application of:

Alan J. LIPTON et al.

Application No.: 09/987,707

Confirmation No.: 7303

Filed: November 15, 2001

For: VIDEO SURVEILLANCE SYSTEM  
EMPLOYING VIDEO PRIMITIVES

Art Unit : 2611

Examiner: To Be Assigned

Atty. Docket No. 37112-175340

Customer No.



26694

PATENT TRADEMARK OFFICE

**INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

This Information Disclosure Statement is being submitted in accordance with 37 C.F.R. § 1.97 within the time specified under 37 C.F.R. § 1.97(b). The relevant references were cited in the U.S. patent application as originally filed (see pages 1-3, paragraphs 3-27). It is respectfully requested that the information set forth herein and the listed documents be considered during the pendency of the above-identified application and any other application relying on the filing date of this application or cross-referencing it as a related application.

In accordance with 37 C.F.R. § 1.98, attached to this Information Disclosure Statement is a Form PTO-1449, listing the references being submitted for consideration by the Office. Copies of the references are also attached.

This Information Disclosure Statement is being filed before the issuance of a first Office Action on the merits. Therefore, no Statement Under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

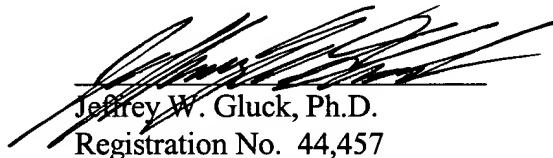
Regarding the reference entitled, "Local Application of Optic Flow to Analyse Rigid versus Non-Rigid Motion," by Alan J. Lipton, while the copy of the reference contains no indicia of publication, Applicants are enclosing as an exhibit web pages containing the Schedule and Abstracts of the papers presented at the IEEE ICCV '99 Frame-Rate Workshop, as evidence of its publication there. Applicants note that, when accessed on-line, the web pages contain a link to the version of the paper being submitted herewith.

Applicants: Alan J. LIPTON et al.  
Application No. 09/987,707

In view of the above, no further translation or statement of relevance is required and, as all requirements of 37 C.F.R. § 1.97 and all official guidelines pertaining to Information Disclosure Statements have been complied with, it is therefore respectfully requested that the Examiner consider the documents and make them of record.

Respectfully submitted,

Date: January 14, 2003



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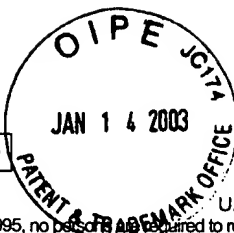
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

### Complete if Known

|                        |                   |
|------------------------|-------------------|
| Application Number     | 09/987,707        |
| Filing Date            | November 15, 2001 |
| First Named Inventor   | Alan J. LIPTON    |
| Group Art Unit         | 2611              |
| Examiner Name          | To Be Assigned    |
| Attorney Docket Number | 37112-175340      |

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### OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

| Examiner<br>Initials * | Cite<br>No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|------------------------|--------------------------|---|----------------|
|                        | B1                       | L. WIXSON ET AL., "Detecting Salient Motion by Accumulating Directionally-Consistent Flow," IEEE, 1999.   |                |
|                        | B2                       | W.E.L. GRIMSON ET AL., "Using Adaptive Tracking to Classify and Monitor Activities in a Site," CVPR, pp. 22-29, June 1998.  |                |
|                        | B3                       | A.J. LIPTON ET AL., "Moving Target Classification and Tracking from Real-time Video," IUW, pp. 129-136, 1998.   |                |
|                        | B4                       | T.J. OLSEN ET AL., "Moving Object Detection and Event Recognition Algorithm for Smart Cameras," IUW, pp. 159-175, May 1997.   |                |
|                        | B5                       | A. J. LIPTON, "Local Application of Optical Flow to Analyse Rigid Versus Non-Rigid Motion," International Conference on Computer Vision Frame Rate Workshop, Corfu, Greece, September 1999.   |                |
|                        | B6                       | F. BARTOLINI ET AL., "Counting people getting in and out of a bus by real-time image-sequence processing," IVC, 12(1):36-41, January 1994.  |                |
|                        | B7                       | M. ROSSI ET AL., "Tracking and counting moving people," ICIP94, pp. 212-216, 1994.  |                |
|                        | B8                       | C.R. WREN ET AL., "Pfindex: Real-time tracking of the human body," Vismod, 1995.  |                |
|                        | B9                       | L. KHOUDOUR ET AL., "Real-Time Pedestrian Counting by Active Linear Cameras," JEI, 5(4):452-459, October 1996.  |                |
|                        | B10                      | S. IOFFE ET AL., "Probabilistic Methods for Finding People," IJCV, 43(1):45-68, June 2001.  |                |
|                        | B11                      | M. ISARD ET AL., "BraMBLe: A Bayesian Multiple-Blob Tracker," ICCV, 2001.   |                |

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Date  
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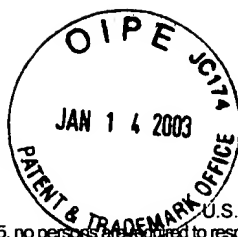
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<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 2

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|------------------------|--------------------------|---|----------------|
|                        | B12                      | D.M. GAVRILA, "The Visual Analysis of Human Movement: A Survey," CVIU, 73(1):82-98, January 1999.   |                |
|                        | B13                      | N. HAERING ET AL., "Visual Event Detection," Video Computing Series, Editor Mubarak Shah, 2001.   |                |
|                        | B14                      | COLLINS ET AL., "A System for Video Surveillance and Monitoring: VSAM Final Report," Technical Report CMU-RI-TR-00-12, Robotics Institute, Carnegie Mellon University, May 2000.  |                |
|                        | B15                      | J.P. DEPARIS ET AL., "A Device for Counting Passengers Making Use of Two Active Linear Cameras: Comparison of Algorithms," IEEE, pp. 1629-1634, 1996.   |                |
|                        | B16                      | C.R. WREN ET AL., "Pfinder: Real-Time Tracking of the Human Body," PAMI, vol 19, pp. 780-784, 1997.   |                |
|                        | B17                      | M. ALLMEN ET AL., "Long--Range Spatiotemporal Motion Understanding Using Spatiotemporal Flow Curves," Proc. IEEE CVPR, Lahaina, Maui, Hawaii, pp. 303-309, 1991.  |                |
|                        | B18                      | L. WIXSON, "Detecting Salient Motion by Accumulating Directionally Consistent Flow", IEEE Trans. Pattern Anal. Mach. Intell., vol. 22, pp. 774-781, Aug. 2000.  |                |
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